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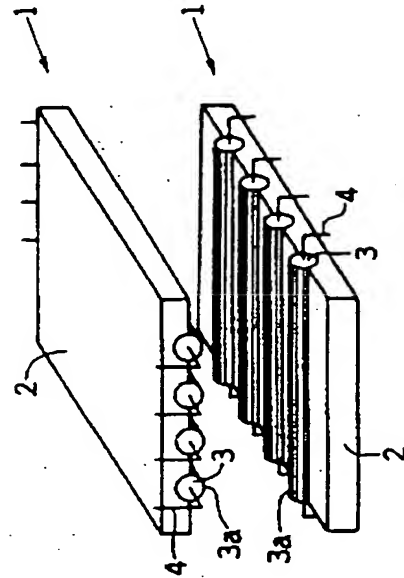
APPLICATION DATE : 26-02-85
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TITLE : ELECTRICALLY CONDUCTIVE SHEET



ABSTRACT : PURPOSE: To detect the load with high accuracy relative to the wide area and pressure ranges by pressing a rod-like electrically conductive elastomer arranged parallel to one side of an insulating sheet for elastically deforming the contact surface.

CONSTITUTION: On one surface of the insulating sheet 2 are placed electrically conductive elastomer rods 3 in parallel and horizontal arrays and two electrically conductive sheets are stacked at right angles with the elastomer bars 3. When the pressure is applied to the sheet 2, the sheet and the elastomer rods 3 are uniformly resiliently deformed so that the contact pressure is decreased and the current passing through leads 4 is increased so as to detect the pressure value. Hence, the pressure can be detected over a wide range by cutting the sheet in desired sizes while the array density of the elastomer rods 3 can be changed for application in a range from low to high pressures. The load sensor thus obtained is highly accurate in pressure-resistance characteristics.

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